

07/22/99

**UTILITY PATENT APPLICATION  
TRANSMITTAL UNDER 37 CFR 1.53(b)**

To: Assistant Commissioner for Patents  
Box Patent Application  
Washington, D.C. 20231

**AUTHORIZING THE PRINTING OF DIGITAL  
IMAGES**

First Named Inventor (or Application Identifier):

David L. Patton, et al

**ATTORNEY DOCKET 79687RLO**

**Express Mail Label No.**

**EL267103682US**

Date: 7-22-99

Jc525 U.S. PRO  
09/359152  
07/22/99



Enclosed are:

1.  Specification
2.  4 Sheet(s) of drawing(s)
3.  Information Disclosure Statement Under 37 CFR 1.97.
4. Combined Declaration for Patent Application and Power of Attorney:
  - 4a.  New
  - 4b.  Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 11 completed)

5.  Incorporation by Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

10.  If a 111A application prior to examination of the above-identified application, amend the specification at Page 1, after the title, by inserting the following:

--CROSS REFERENCE TO RELATED APPLICATION

Reference is made to and priority claimed from U.S. Provisional Application Serial No. , filed , entitled .

If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

11.  Continuation  Divisional  Continuation-in-part (CIP) of prior application No. ,

12.  Please address all written communications to Thomas H. Close, Patent Legal Staff, Eastman Kodak Company, 343 State Street, Rochester, NY 14650-2201.  
Please Direct all telephone calls to Raymond L. Owens at (716) 477-4653.

The filing fee has been calculated as shown below:

FOR:	NO. FILED	NO. EXTRA	RATE	FEE
BASIC FEE				\$ 760
TOTAL CLAIMS	14 - 20 =	0	x 18 =	\$ 0
INDEPENDENT CLAIMS	3 - 3 =	0	x 78 =	\$ 0
MULTIPLE DEPENDENT CLAIM PRESENTED			+ 260	\$0
			<b>TOTAL</b>	<b>\$ 760</b>

Please charge my Eastman Kodak Company Deposit Account No. 05-0225 in the amount of \$ 760.

**A duplicate copy of this sheet is enclosed**

The Assistant Commissioner is hereby authorized to charge any additional filing fees required under 37 CFR 1.16 or credit any overpayment to Eastman Kodak Company Deposit Account No. 05-0225.

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## APPLICATION INFORMATION

Title Line One:: AUTHORIZING THE PRINTING OF DIGITAL  
Title Line Two:: IMAGES  
Total Drawing Sheets:: 4  
Formal Drawings?:: No  
Application Type:: Utility  
Docket Number:: 79687RLO  
Secrecy Order in Parent Appl.?:: No

## REPRESENTATIVE INFORMATION

Registration Number One::	22363
Registration Number Two::	27428
Registration Number Three::	27678
Registration Number Four::	33447
Registration Number Five::	24516

Source:: PrintEFS Version 1.0

## **AUTHORIZING THE PRINTING OF DIGITAL IMAGES**

### **FIELD OF THE INVENTION**

This invention relates to electronically transmitting a digital image over a channel to the receiving agency and authorizing such image to be  
5 printed such as on a postage stamp.

### **BACKGROUND OF THE INVENTION**

Photographic images have been viewed at a consumer's location or a personal computer and images have been selected for initial printing, reprinting and ordering related image services.

10       Photographic negatives are provided to a scanner to obtain image data. The image data is manipulated to provide a positive image in the case of the photographic negatives and sent to the consumer's personal computer. The desired images are then selected and order information is provided, based on the positive image as displayed on the display of the personal computer. The order  
15      information is recorded to permit the desired prints and services to be created and the resulting order is sent to the addressee. The following can also be used as sources of images to be selected for prints and other services; image files stored in digital format on floppy disks, Picture CDs, Photo CDs, CD-ROMs, down loaded from the Internet, and negatives and prints scanned using the consumer's own  
20      scanner and displayed on their personal computer's display.

Services selected using the chosen images are used in a number of different applications. In one of those applications, so-called "sticker prints" are made on a print media having an adhesive base and arranged so that they can be peeled off and individually pasted onto another surface. However, these stickers  
25      are not used in situations, which require that they be "authentic" such as postage stamps. By use of the term "authentic" is meant that the image can indicate to a viewer or a reader with a high degree of certainty that the image has not been counterfeited.

Currently the postage stamps are printed using a Gravure process.

The Gravure process is capable of creating images of very high resolution, well beyond the capabilities of most common printers. The Gravure process is an intaglio process. It uses a depressed or sunken surface etched into a copper cylinder to create the image and the unetched surface of the cylinder represent non-printing areas. The cylinder rotates in a bath of ink and the etched area picks up the ink and transfers it to the media creating the image. Gravure printing is considered excellent for printing highly detailed marks or pictures. High cylinder making expense usually limits Gravure to long runs.

5

10       The process described above for printing stamps does not lend itself to printing small batches of stamps in the quantities of 10 to 1000. This prohibits a consumer from choosing an image and having a postage stamp created using that image. A second problem is that not every personal image is suitable for use as a postage stamp. That is to say some personal images might be  
15       offensive in nature.

U.S. Patent No. 5,873,605, discloses creating a postage stamp using an electronic camera to capture an image of oneself via a vending machine.

Likewise in European Patent Application EP 0 893 787, Basington et. al., disclose producing a postage stamp using an electronic camera and a vending machine.

20       There are several problems that are not addressed using these methods. The first problem is the user must go to the vending machine to produce the stamp. The second is that there is no method described for checking the content of the image to insure that the image captured is not offensive in nature making it unsuitable for use as a stamp. The third problem is it does not permit for creating a stamp from  
25       an image from other digital sources such as a file, print, negative, Photo CD, CD-ROM, or DVD.

### SUMMARY OF THE INVENTION

It is an object of the present invention to provide a method of authorizing the making of images on a receiver such as postage stamps by a  
30       receiving agency comprising the steps of:

(a) electronically transmitting a digital image file over a channel to the receiving agency;

(b) the digital image file includes at least one digital image and authorization information for making images on a receiver; and

5 (c) receiving the digital image file at the receiving agency, displaying at least one received digital image and examining the displayed digital image to determine whether its contents are acceptable for making images and examining the authorization information and printing at a designated location accepted digital images on a receiver corresponding to the transmitted digital

10 image when the authorization information is approved.

By electronically transmitting a digital image and authorization information for making images on a receiver over a channel to the receiving agency, where the receiving agency examines the transmitted digital image and authorization information to determine whether it is acceptable for making

15 images. When the receiving agency determines the digital image is acceptable and the authorization information is approved, the receiving agency prints the image on a receiver.

It is a feature of the present invention wherein the transmitted digital image is converted by a display to a visual image, which is viewed to

20 determine if the image is acceptable.

It is another feature of the present invention wherein the authorization information is examined by logic and control means to determine that whether or not the authorization information is approved.

It is another feature of the present invention wherein a thermal

25 printer, electrophotographic printer, ink jet or digital photographic printer prints the images.

It is a further feature of the present invention wherein the image and the authorization information is transmitted over the Internet.

It is an additional feature of the present invention wherein the image and the authorization information is delivered to the receiving agency via a courier service such as the U.S. Postal Service or Federal Express in a hardcopy form.

5 Still another feature of the present invention wherein the printed image in the form of a stamp is returned to the requesting consumer via the U. S. Postal Service or courier service such as Federal Express.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

FIG. 1 is a block diagram of a system for remotely selecting images  
10 and transmitting a digital file of the selected image to a receiving agency such as for the production of postage stamps;

FIG. 2 is a block diagram of a system for remotely selecting images for transmitting to, receiving at a location different than the receiving agency of FIG. 1;

15 FIG. 3 is a flow chart showing how images are selected and a digital file of the selected image is transmitted to the receiving agency;

FIG. 4 is a flow chart continuing the flow chart of FIG. 3 showing how selected images are authorized and produced from the digital file and sent to the requesting consumer;

20 FIG. 5 is a block diagram of a system for sending an image via a courier to receiving agency such as for the production of postage stamps; and

FIG. 6 is a block diagram of a system for sending an image via a courier to, receiving at a location different than the receiving agency of FIG. 5.

#### **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS**

25 Referring now to FIG. 1, there is illustrated a system for remotely selecting an image and ordering postage stamps according to the present invention. Reference is made to commonly assigned U.S. Patent No. 5,666,215 the disclosure of which is incorporated herein by reference. A set of personal images 30 is viewed at a consumer's location 10 on their personal computer 20 or  
30 interactive TV. The source of the set 30 of the personal images can be image files

stored in digital format on floppy and hard disks, Picture CDs, Photo CDs, and CD-ROMs. The image files can be down loaded from the Internet using a system such as Kodak's PhotoNet, or negatives and prints can be scanned using the consumer's own film scanner 45 or print scanner 55 and displayed on their

5 personal computer's display 60. The desired image 40 is then selected and authorizing information such as order information is provided. The authorizing information is comprised of but not limited to the consumer's address, credit card number, consumer authorization and number of postage stamps desired. A digital file of the selected image 40 and the authorizing information are sent via a modem  
10 70 to the receiving agency 80 such as the U. S. Postal Service over communication links 90 such as the Internet. The receiving agency 80 receives the image file and authorizing information via a modem 115, records the image file and authorizing information using a computer 95, and stores the image file and authorizing information in a mass storage unit 105 such as an IOMEGA Jaz Drive.

15 As illustrated in FIG. 5, the consumer sends a hardcopy 400 of the image 40 and authorizing information such as order information to the receiving agency 80 via a carrier such as the U.S. Postal Service, Federal Express, or DHL. The authoring agency receives the hardcopy image 400, scans the hard copy image 400 and the authoring information using a scanner 410 such as an Epson ES-  
20 1200C, records an image file including authorizing information using a computer 95, and stores the digital file in a mass storage unit 105 such as an IOMEGA Jaz Drive.

Referring again to FIG. 1, the receiving agency 80 checks the received image file by viewing the received image 100 and the authorizing  
25 information on a monitor 110 and authorizes the requested number of personalized stamps 120 to be produced and sent to the addressee. The personalized stamps 120 are produced using a thermal printer 130 such as a KODAK PS 8650 Color Printer or a KODAK Photo Printer 4700. Other types of digital printers such as a KODAK CRT Digital Color Printer, a Hewlett Packard Deskjet 870Cix Inkjet  
30 Printer, or a digital electrophotographic printer such as an Indigo - E - 1000 can be

used to produce the personalized stamps 120. Methods for producing authenticated images are disclosed in commonly assigned U.S. Patent Application Serial No. 09/103,019, filed June 23, 1998, entitled "Forming Authenticated Images In A Receiver"; Paz-Pujalt et, al. and U.S. Patent Application Serial N  
5 09/165,066, filed October 2, 1998, entitled "Receiver Having Authenticated Marks"; Paz-Pujalt et, al, the disclosures of which are incorporated herein by reference.

FIG. 2 is a block diagram of a system for remotely selecting images for transmitting to, receiving at a location different than the receiving agency for  
10 the production of such items as personalized postage stamps 120. The receiving location 140 can be a photofinisher, or any place capable of receiving, authorizing and printing an authentic digital image 150 such as a postage stamp. A digital file of the desired image 40 and authorizing information are sent via a modem 70 (See FIG. 1) to the receiving location 140 over communication links 90 such as the  
15 Internet. The receiving location 140 receives the image file and authorizing information via a modem 155, records the image file and authorizing information using a computer 295, and stores the image file and authorizing information in a mass storage unit 165 such as an IOMEGA Jaz Drive.

As illustrated in FIG. 6, the consumer can send a hardcopy 400 of  
20 the image 40 and authorizing information 230 to the receiving location 140 via a carrier such as the U.S. Postal Service, Federal Express, or DHL. The receiving location receives the hardcopy image 400 and authorizing information 230, scans the hard copy image 400 and authorizing information 230 using a scanner 420 such as an Epson ES-1200C, records the image file and authorizing information  
25 230 using a computer 295, and stores the image file and authorizing information in a mass storage unit 165 such as an IOMEGA Jaz Drive.

Referring again to FIG. 2, the receiving location 140 checks the received image file by viewing the received image 170 and the authorizing information on a monitor 180 and authorizes the requested number of personalized  
30 stamps 120 to be produced and sent to the addressee. The personalized stamps

120 are produced using a thermal printer 190 or on a digital minilab 195 such as a Gretag Imaging Masterlab 740 Digital with Kodak Digital Printer. The postage stamps may also be printed using a digital color printer such as Xeikon D CP-1.

Now referring to FIG. 3, there is provided a flow chart showing

- 5 how the consumer selects an image and sends a digital file of the selected image and authorizing information over the communication links 90 to the receiving agency 250. The consumer chooses the images from the image files to be displayed 200. The consumer selects 210 a desired image 40 from the display 60. The consumer then completes 220 the authorizing form 230. The authorizing
- 10 form 230 contains an authorization code 235. Both the consumer and the receiving agency 250 can use the authorization code 235 to insure the image received by the receiving agency 250 did come from and belong to the consumer requesting the postage stamps. The authorization code 235 can be linked to the consumer's credit card number similarly to the way a pin number is linked to a
- 15 credit card and is well known in the art. The linking of the authorization code 235 to the consumer's credit card number can be done for added security but is not necessary. The authorization code 235 can also be used by receiving agency 250 as a customer order number for identifying and track an order. The receiving agency 250 can also use the authorization code 235 to inform the consumer the
- 20 image selected is suitable for use as a postage stamp and the postage stamps will be produced and sent to the consumer. The consumer electronically attaches the image file of the selected image to the authorizing form file, 240, chooses a receiving agency 250 either 80 (FIG. 1) or 140 (FIG. 2) and e-mails both files to the selected receiving agency 260.

- 25 Now referring FIG. 4, which continues the flow chart of FIG. 3 and shows how selected images are authorized and produced from the digital and returned to the requesting consumer. The receiving agency 250 receives the file of the selected image and authorizing form file 300. The files are added to the receiving agency's mass storage unit 3 10. The selected image is displayed, 30 determined for suitability of image content, the authorizing information is entered,

the consumer's credit card is verified, and authorization is given to produce the postage stamps and complete the order 320 when the image content is acceptable and the authorization is approved. The postage stamps are printed 330. After the image has been viewed and authorization to produce the postage stamps given, the  
5 receiving agency can choose to notify the consumer that the order is being fulfilled 340. The receiving agency charges the consumer's credit card 350 and the completed order are sent to the consumer's address 360 or to any other consumer designated location for retrieval. If the receiving agency is not the post office, but an agent, the postage stamp transaction 370 is recorded to that the  
10 collect revenues can be distributed.

It will be understood the present invention is not limited to the printing of postage stamps but is equally applicable to the printing of traveler's checks, money orders, gift certificates, or the like.

The invention has been described in detail with particular reference  
15 to certain preferred embodiments thereof, but it will be understood that variations and modifications can be effected within the spirit and scope of the invention.

## PARTS LIST

- 10 consumer location
- 20 personal computer
- 30 personal images
- 40 desired images
- 55 scanner
- 60 display
- 70 modem
- 80 receiving agency
- 90 communication link
- 100 received image
- 105 mass storage unit
- 110 monitor
- 115 modem
- 120 personalized images
- 130 printer
- 140 receiving locations
- 150 authentic digital images
- 155 modem
- 165 mass storage unit
- 170 received image
- 180 monitor
- 190 printer
- 200 developed images
- 230 order form
- 235 authorization code
- 240 order form file

## **Parts List cont'd**

250 receiving agency  
260 selected receiving agency  
300 order form  
310 mass storage unit  
320 order  
330 printed postage stamps  
340 fulfilled order  
350 credit card charge  
360 customer address  
370 stamp transaction

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**WHAT IS CLAIMED IS:**

1. A method of authorizing the making of images on a receiver such as postage stamps by a receiving agency comprising the steps of:

(a) electronically transmitting a digital image file over a channel to the receiving agency;

(b) the digital image file includes at least one digital image and authorization information for making images on a receiver; and

(c) receiving the digital image file at the receiving agency, displaying at least one received digital image and examining the displayed digital image to determine whether its contents are acceptable for making images and examining the authorization information and printing at a designated location accepted digital images on a receiver corresponding to the transmitted digital image when the authorization information is approved.

2. The method of claim 1 wherein the transmitted digital image is converted by a display to a visual image which is viewed to determine if it is acceptable.

3. The method of claim 1 wherein the authorization information is examined by logic and control means to determine that whether or not the authorization information is approved.

4. The method of claim 1 wherein the images are printed by a thermal printer, electrophotographic printer, ink jet or photographic printer.

5. The method of claim 1 wherein the digital image and the authorization information is transmitted over the Internet.

6. A method of authorizing the making of images on a receiver such as postage stamps by a receiving agency comprising the steps of:

(a) examining a hardcopy image and authorization information produced at a location remote from the receiving agency to preliminarily determine if the image and authorization information is acceptable;

(b) scanning the preliminarily accepted hardcopy image creating a digital image file, the digital image file includes at least one digital image and the authorization information for making images on a receiver; and

(c) displaying and examining the scanned digital image and the scanned authorization information to determine whether their contents are approved for making images and printing at a designated location accepted digital images on a receiver corresponding to the scanned hardcopy image when the displayed image and the displayed authorization information are approved.

7. The method of claim 6 wherein the scanned hardcopy image is converted by a display to a visual image which is viewed to determine if it is acceptable.

8. The method of claim 6 wherein the authorization information is examined by logic and control means to determine that whether or not the authorization information is approved.

9. The method of claim 6 wherein the images are printed by a thermal printer, electrophotographic printer, ink jet or photographic printer.

10. A method for printing a digital image received at a receiving agency, comprising the steps of: displaying at least one received digital image and corresponding authorization information and examining the displayed digital image and authorization information to determine whether their contents are acceptable for making images and printing at a designated location accepted digital images on a receiver corresponding to the transmitted digital image.

11. The method of claim 10 wherein the received digital image is converted by a display to a visual image which is viewed to determine if it is acceptable.

12. The method of claim 10 wherein the authorization information is examined by logic and control means to determine that whether or not the authorization information is approved.

13. The method of claim 10 wherein the images are printed by thermal printer, electrophotographic printer, ink jet or photographic printer.

14. The method of claim 10 wherein the digital image and the authorization information is transmitted over the Internet.

## ABSTRACT

A method of authorizing the making of images on a receiver such as postage stamps by a receiving agency includes electronically transmitting a digital image file over a channel to the receiving agency and the digital image file 5 includes at least one digital image and authorization information for making images on a receiver. The method further includes receiving the digital image file at the receiving agency, displaying at least one received digital image and examining the displayed digital image to determine whether its contents are acceptable for making images and examining the authorization information and 10 printing at a designated location accepted digital images on a receiver corresponding to the transmitted digital image when the authorization information is approved.

2010 RELEASE UNDER E.O. 14176

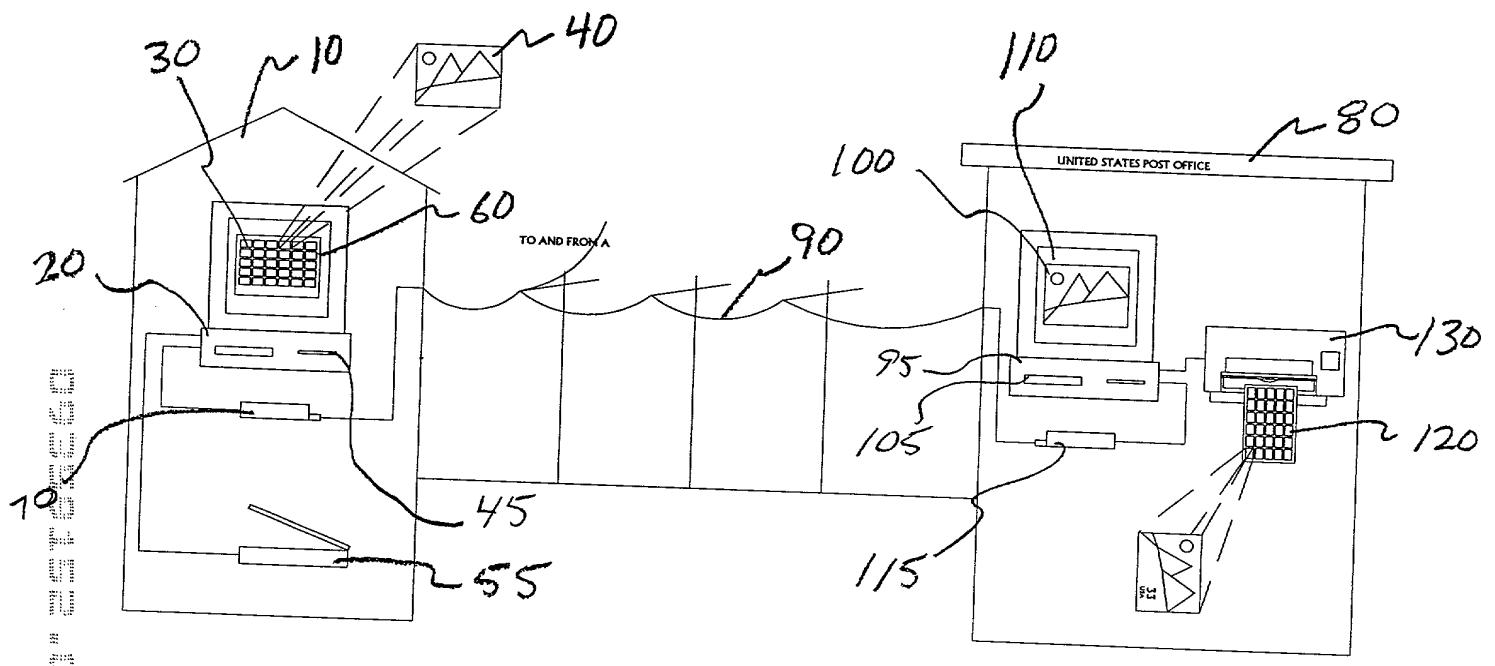


FIG. 1

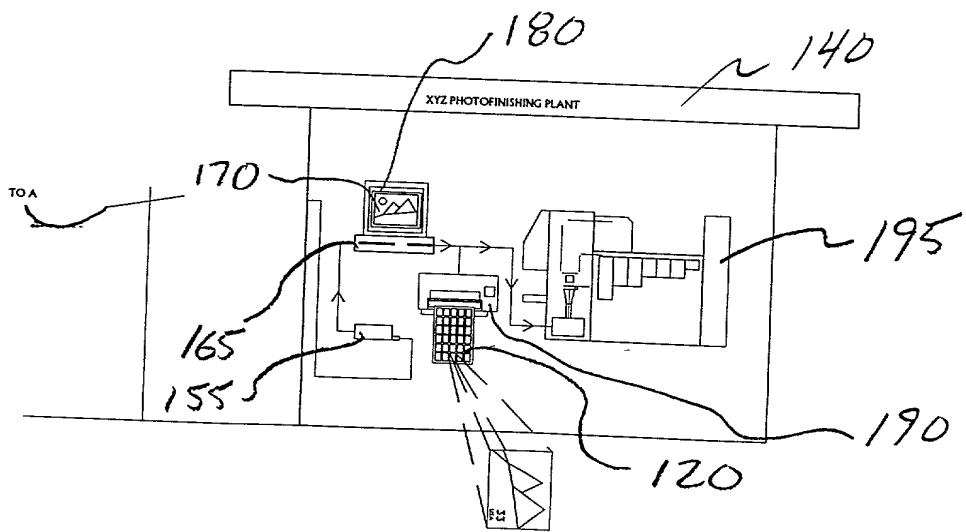


FIG. 2

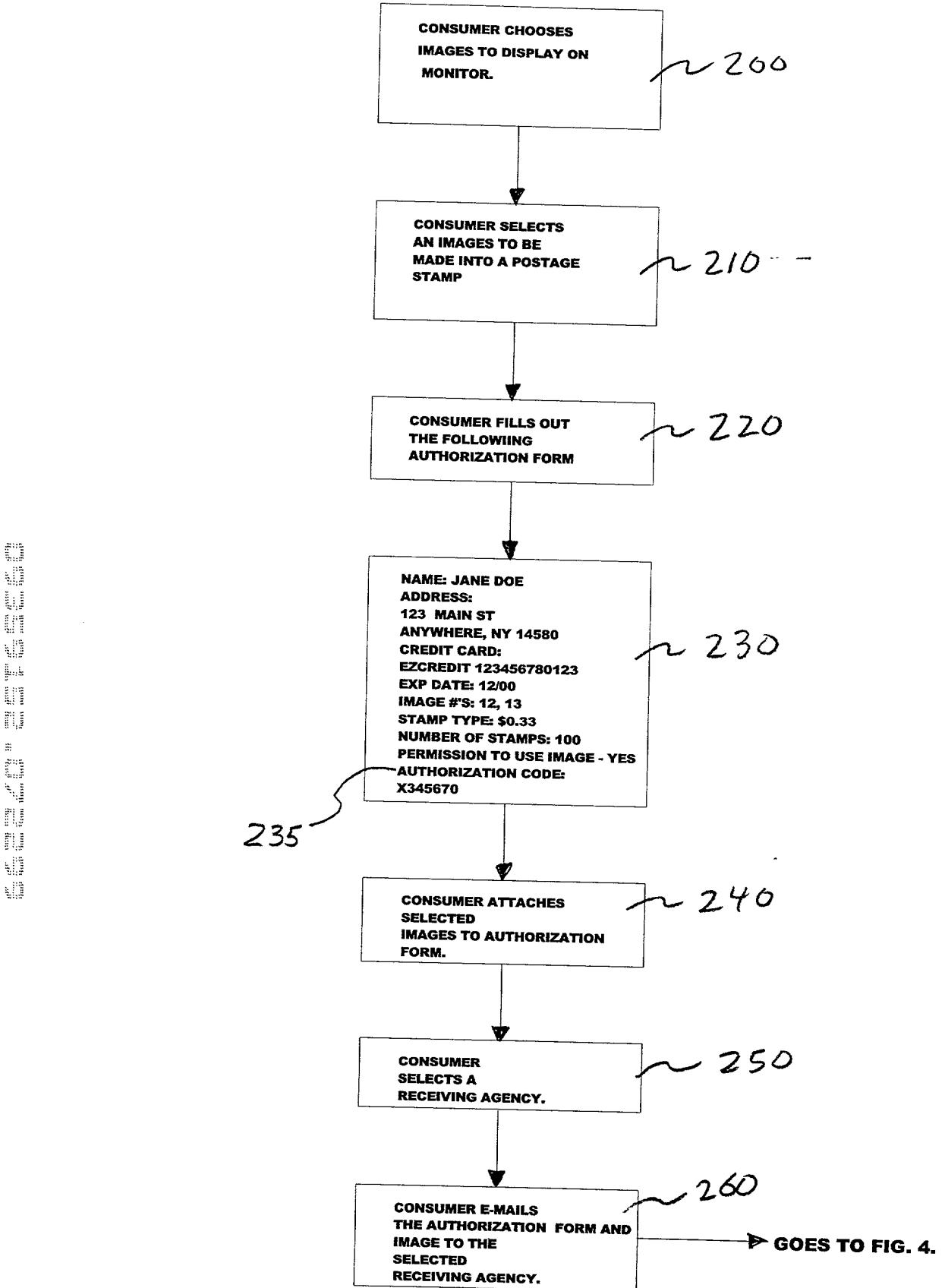


FIG. 3

**CONTINUED FROM BLOCK 260, FIG. 3**

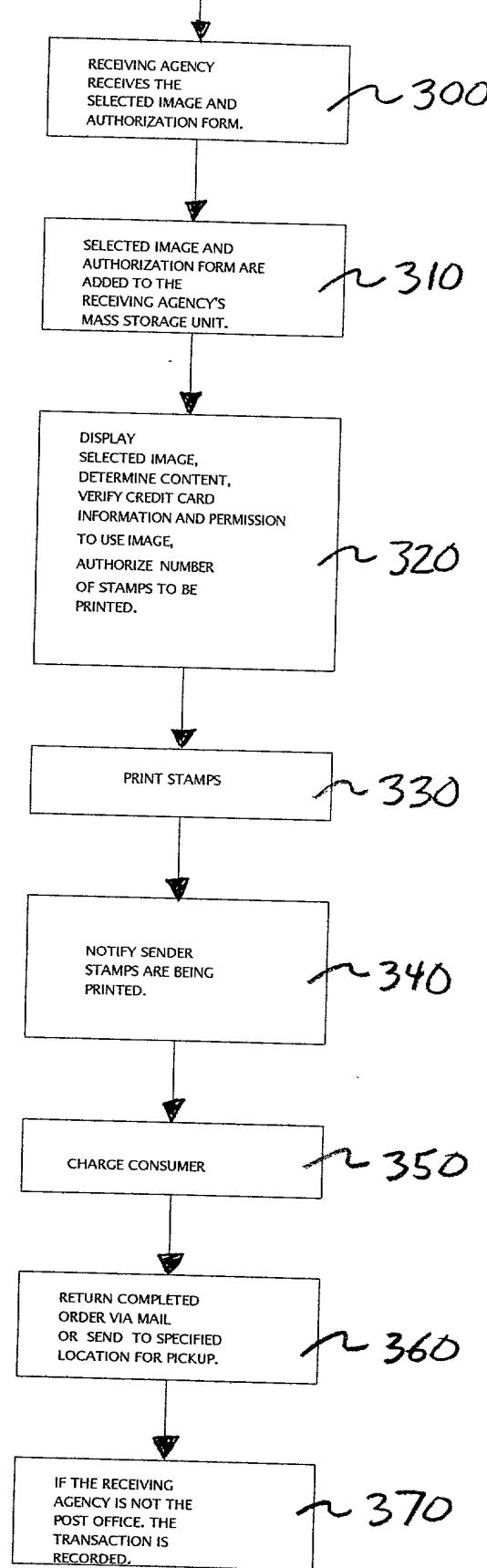


FIG. 4

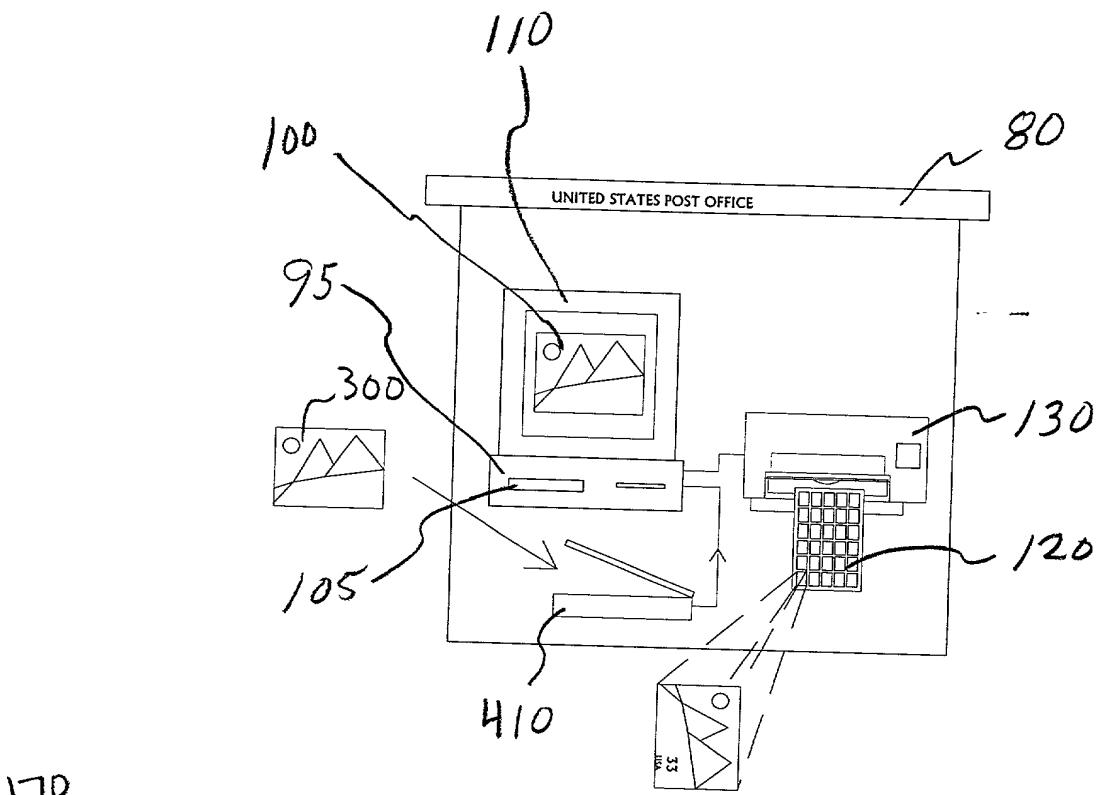


FIG. 5

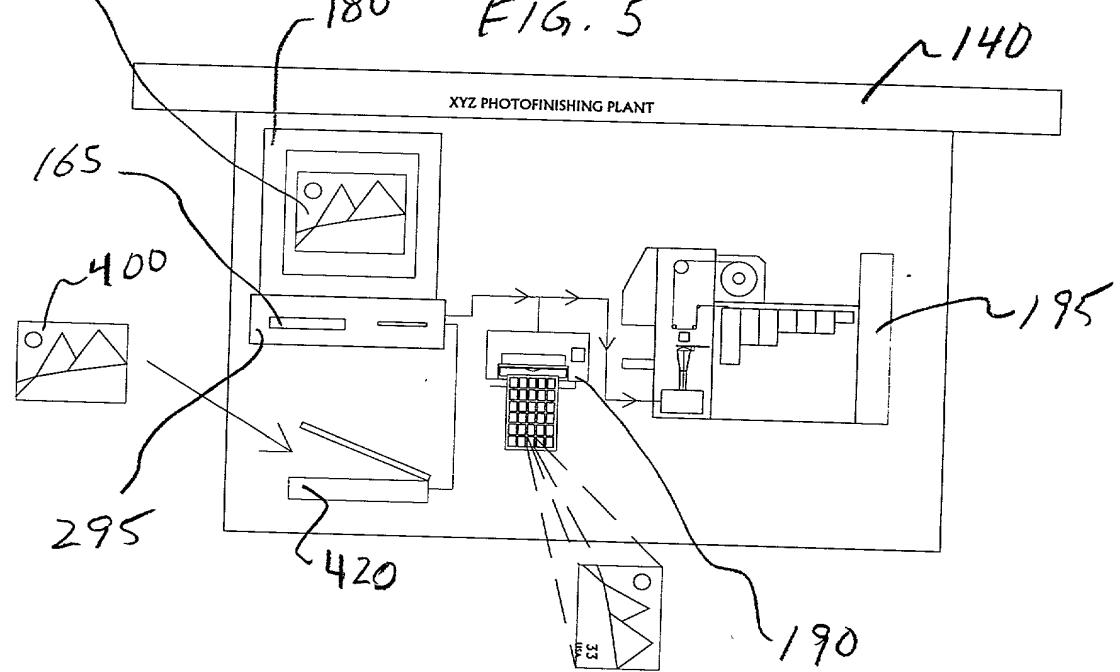


FIG. 6

## Combined Declaration For Patent Application and Power of Attorney

ATTORNEY DOCKET  
79687RLO

As below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**AUTHORIZING THE PRINTING OF DIGITAL IMAGES**

The specification of which (check only one item below):

 is attached hereto. was filed as United States Application Serial No. on and  
was amended on (if applicable). was filed as PCT international application Number on and was amended under PCT Article 19 on (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent &amp; Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign applications(s) for patent or inventor's certificate or any PCT international application(s) designating a least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

**PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:**

COUNTRY (If PCT, indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day/month/year)	PRIORITY CLAIMED UNDER 35 USC §119		
			YES		NO
				YES	NO
				YES	NO
				YES	NO

I hereby claim the benefit under Title 35, United States Code, 119 §(e) of any United States provisional application(s) listed below:

**PRIOR PROVISIONAL APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. §119 (e):**

PROVISIONAL APPLICATION NUMBER	FILING DATE

I hereby claim the benefit under Title 35, United States Code, §120 of any prior United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior applications(s) in the manner provided by the first paragraph of Title 35, §112, I acknowledge the duty to disclose to the U.S. Patent &amp; Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations §1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

**PRIOR US APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S FOR BENEFIT UNDER 35USC§120:**

U.S. APPLICATIONS		STATUS (Check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
PCT APPLICATIONS DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)		

## Combined Declaration For Patent Application and Power of Attorney (Continued)

ATTORNEY DOCKET  
79687RLO

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (*List name and registration number*)

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**Thomas H. Close, Registration No. 27,428**

**J. Lanny Tucker, Registration No. 27,678**

**Sarah Meeks Roberts, Registration No. 33,447**

**Arthur H. Rosenstein, Registration No. 24,352**

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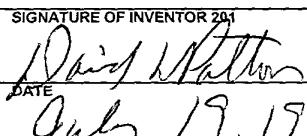
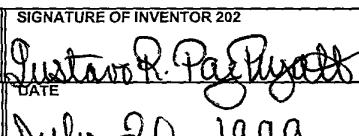
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2	FULL NAME OF INVENTOR	FAMILY NAME Paz-Pujalt	FIRST GIVEN NAME Gustavo	SECOND GIVEN NAME R.
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2	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
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3	BUSINESS ADDRESS	Business Address	CITY	STATE & ZIP CODE (COUNTRY)
2	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
0	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
4	BUSINESS ADDRESS	Business Address	CITY	STATE & ZIP CODE (COUNTRY)
2	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
0	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
2	BUSINESS ADDRESS	Business Address	CITY	STATE & ZIP CODE (COUNTRY)
2	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
0	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
6	BUSINESS ADDRESS	Business Address	CITY	STATE & ZIP CODE (COUNTRY)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201  DATE July 19, 1999	SIGNATURE OF INVENTOR 202  DATE July 20, 1999	SIGNATURE OF INVENTOR 203  DATE
SIGNATURE OF INVENTOR 204  DATE	SIGNATURE OF INVENTOR 205  DATE	SIGNATURE OF INVENTOR 206  DATE